



Pile Dynamics, Inc, a growing company headquartered in Cleveland, Ohio, USA, is the largest manufacturer of foundation dynamic testing equipment in the world. A superb team of civil engineers, electronic engineers, software developers and technicians make the constant development of the PDI line of products possible and highly relevant to the deep foundation industry. PDI excels in product quality and customer support. PDI has a network of sales representatives spread from the Far East to Europe to South America to Australia. PDI products improve the quality assurance of deep foundations on jobsites in over 100 countries throughout the world.

We **Al Bayan Technical Equipment L.L.C** are the authorized distributors of PDI products in GCC.

Pile Integrity Tester (PIT)



The Pile Integrity Tester gives peace of mind that a pile or shaft is free of major cracks and voids, prior to construction of the superstructure. It may be used on most concrete or wood foundations. The PIT may also be used to test piles integral in the structure, such as those supporting existing bridges or towers, and may assess their length.

The Pile Integrity Tester is available in several configurations to match the needs of each user.

PIT-QV and PIT-QFV (pictured on the upper right of the page) have a large screen and read data from traditional (cabled) accelerometers and/or instrumented hammers.

PIT-X and PIT-XFV (pictured on the upper left) are smaller and lighter, and are available in traditional or wireless versions.

PIT-X and PIT-QV offer a single channel for data acquisition and read velocity data from a single accelerometer. They analyze data in the Time Domain by the Pulse Echo method, which is sufficient for most integrity tests.

PIT-XFV and PIT-QFV come with 2 channels of data acquisition and may read data from one accelerometer and one instrumented hammer or from two traditional accelerometers. The instrumented hammer furnishes data for a more thorough evaluation of the integrity of the foundation (force and velocity analysis in the Frequency Domain) and allows the investigation of defects near the pile top (Transient Response Method). The use of a second accelerometer may be useful when testing piles under existing structures, for determining unknown foundation length, and for large diameter piles.

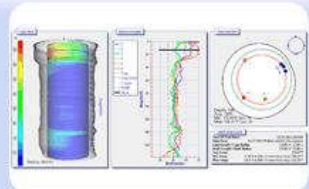
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Pile Driving Analyzer® (PDA)

The PILE DRIVING ANALYZER (PDA) system is the most widely employed system for Dynamic Load Testing and Pile Driving Monitoring in the world. High Strain Dynamic Load Tests, also called PDA tests, assess the capacity of several piles in a single day. Pile Driving Analyzer systems also evaluate shaft integrity, driving stresses and hammer energy when monitoring installation.

The PDA Model 8G is the culmination of a complete redesign effort that incorporates the latest technological innovations and truly embodies Pile Dynamics's commitment to quality. The PDA-8G is as sophisticated in its looks as it is in the software that powers it. Thin, light and ergonomic, it features touchscreen gesture controls like swiping and pinch-to-zoom. The PDA-8G come with 4 or 8 universal channels of data acquisition, all capable of reading data from Smart Sensors, be it in traditional (cabled) or wireless mode. This allows for extreme testing flexibility. Improved data transfer makes it easier to test hydraulic hammers with high blow rates.

Thermal Integrity Profiler

The Thermal Integrity Profiler (TIP) uses the heat generated by curing cement to assess the quality of drilled shafts and of bored, augered cast in place, continuous flight auger or drilled displacement piles. It may also be used for quality control and shape evaluation of jet grouting, slurry walls and diaphragm walls. TIP evaluates the entire cross-section and the entire length of the foundation. Results are available shortly after shaft installation is concluded: TIP reveals necks or inclusions (regions that are colder than average), bulges (regions that are warmer than average), variations in concrete cover, shape of the shaft and cage alignment.

**Cross-Hole Analyzer
CHAMP-XV****Al Bayan Technical Equipment LLC,**

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The Cross-Hole Analyzer evaluates the quality of the concrete of deep foundations by the Crosshole Sonic Logging (CSL) method. It also performs Single Hole Sonic Logging (SSL).

The CHAMP-XV consists of a main unit with 60 GB internal solid state drive (SSD) and Windows 7 OS, a receiver and a transmitter in sturdy brass housing, two independent depth measuring devices, a tripod for assembling the test, and the powerful software CHA-W. Options include the Motorized Probe Deployment System that relieves the operator from pulling the cables manually, making testing more comfortable and the PDI-Tomo software.

SQUID (Shaft Quantitative Inspection Device)



The SQUID system is a new technology for quantitatively assessing the quality of the bottom surface of bored pile or drilled shaft. It measures both the thickness of soft material or debris on top of the bearing strata and the strength of the bearing layer, providing a strength versus penetration output in numerical and graphical form.

For more details contact albatech@eim.ae or visit <http://www.pile.com>

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